Funding: Tattva Heritage Foundation,Kolkata. Digitization: eGangotri.

LABORATORY EQUIPMENT

FOR

HIGH & MIDDLE SCHOOLS IN THE STATE OF MYSORE

25

MELKOTE

The Excelsior Science Apparatus Workshop

(H. O. Jolly House, Ambala Cantt.)

OFFICES:

TURUVEKERE, (MYSORE).

51 Anna Pillai Street, G. T. MADRAS, 1.

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FOREWORD

We have pleasure in presenting this small booklet of laboratory apparatus and chemicals required for teaching General Science. In preparing this list, we have taken great care to see that only such of the items required for Middle and High Schools, are selected to facilitate the Heads of the Institutions to prepare the indents.

'Excelsior' the India's complete and highly perfected Science Workshop fully meets the most exactingdemands of convenience and fault free service. It has *"Everything"*.....lacks *nothing* that is desirable in beauty of design and finish.....efficiency and bedrock economy of manufacture. A galaxy of distinguished visitors speak of us next to this page.

Changes come so rapidly today that yesterday's arrangements are absolete today. Our organisation is geared to meet tomorrow's requirements and your institution will profit by consulting us before placing orders elsewhere.

Our equipment is used by a larger number of schools in every province in this country. It is a line known for highest quality, for dependable performance—for advanced features that give our dealers advantages not promised so far. Throughout the year and all successful years we shall offer only products of high quality in pursuance of our established policy of providing our patrons with articles of better grade.

The promise of the future is backed by the performance of the past.

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VISITORS SPEAK

Shri Tenzing Norkay Sherpa, Conqueror of the Mount Everest.

It was a pleasure to visit the Excelsior Science Apparatus workshop, Ambala Cantt. this morning. The Firm has a very good reputation behind it for the supply of Science Apparatus, Drawing material, Geometrical Instruments, Chemicals and Glasswares. I was realy glad to see some of the articles being manufactured in the factory and I wish the concern all the more success.

Dec. 21, 1953.

Dr. Harnam Singh, M. A., Ph. D., Director of Education, Pepsu.

The Excelsior Science Apparatus Workshop, Ambala Cantt. who are the founders of the Modern Scientific Indistry in India are pooling all their resources to manufacture only first rate Scientific and Geographical apparatus. My visit to the factory convinced me that "Precision" alone could be their watchword. The firm deserves full encouragement from schools and colleges.

June 1, 1953.

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Hon'ble Shri Prithvi Singh Azad, Labour Minister, Punjab.

The Excelsior Science Apparatus Workshop, Ambala Cantt. should be congratulated for producing Scientific apparatus requiring accuracy and precision. The young folk of today, if provided with facilities in teaching of Science with up-to-date instruments, will be the Scientists of tomorrow.

This factory is discharging this work of national importance with great credit under the supervision of Shri M. C. Jolly. My visit to the workshop proved both interesting and instructing.

Nov. 13, 1949.

The Hono'ble Sir Joginder Singh, Education Member, Viceroy's Executive Council, New Delhi.

The Excelsior Science Apparotus Workshop Ambala looked as having been established for a number of years. When I visited it there were many articles so well finished as to compare with the Foreign makes. I wish the proprietor Mr. M. C. Jolly the best of success for this budding concern.

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Bawa Balwant Singh, M. A., P. E. S., Deputy Director of Public Instruction, Punjab.

The Excelsior Science Apparatus Workshop, Ambala Cantt. which is hardly 11 years old has established itself beyond doubt and carries a name in schools and colleges. I am sure they would keep on the good name of the factory.

My visit to the Workshop to day was simply pleasant.

Sept. 6, 1953.

Dr. Aflat Hassan, M. Sc., Ph. D., Inspecter of Science Education, Hyderabad Deccan.

I paid a surprise visit to the Excelsior Science Apparatus Workshop, Ambala this morning with a view to select articles myself. The variety of articles and stocks maintained by this Workshop could very well compare with those in business for the last so many years. But it struck me most to know that this firm had a standing of about two years only. The proprietor Mr. Jolly impressed me and showed me many articles in science and geography manufactured in his Workshop. I am glad that they all worked to my satisfaction.

I wish Mr. Jolly all possible success.

August 28, 1944.

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Ch. Bharat Singh, B. A., LL. B., Member Punjab and N. W. F. P. Public Service Commision, Lahore.

I visited the Excelsior Science Apparatus Workshop, Ambala owned by Mr. Jolly and I was pleased to go round the different sections of the factory. It is a complete science house with huge stocks and with a resourceful proprietor of journalistic tendencies.

When I come next, I would like to see the Worshop housed in a bigger and brighter building.

Oct. 13, 1946.

The Hon'ble R. B. Lala Ram Saran Dass, C.I.E., Member Council of State, Lahore.

I paid a short visit to the Excelsior Science Apparatus Workshop Ambala this evening. The proprietor Mr. M. C. Jolly showed me some scientific instruments made in his factory. I am glad that the enterprise has been taken in right earnest and has a bright future before it. The scientific line is so ambiguous that a brain behind it will only ensure success and Mr. Jolly as I know him will bring his workshop in line with those already in business.

Wishing it great success, I recommend this Workshop to all concerned.

July 4, 1945.

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LIST OF APPARATUS AND CHEMICALS EQUIRED FOR TEACHING GENERAL SCIENCE IN HIGH SCHOOLS IN MYSORE STATE AS PER SYLLABUS.

. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
1.	2 only.	Meter scale marked in inches, cms. and mms. on the other side 1 meter long. each ...	1 10 0
2.	1 only	Foot rule 12" long marked in inches, cms. and mms. on the other side. each ...	0 2 0
3.	1 only.	Graduated cylinder with spout. 100 cc. each ...	2 0 0
4.	1 only.	Graduated cylinder with spout, 250 cc. each ...	3 8 0
5.	1 only.	Overflow jar made of tin—enamelled. each ...	0 12 0
		Overflow jar made of glas. each ...	2 8 0
6.	2 only.	Flasks flat bottomed heat resistance glass—capacity 150 cc. each ...	0 14 0
7.	2 only.	Beakers with lip, squat type—150 cc. each ...	0 14 0
8.	½ gross.	Bark corks assorted sizes upto 1" dia. gross ...	4 8 0
9.	1 only.	Cork pressure flat—enamelled. each ...	3 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		Cork pressure wheel type and enamelled. each ...	5 4 0
10.	2 only.	Porcelain tiles 6″×6″ sq. each ...	2 0 0
11.	1 only.	Spring balance flat type 100 grms. each ...	1 12 0
12.	1 only.	Spring balance flat type 250 grms. each ...	2 4 0
13.	1 only.	Spring balance flat type 1000 grms. each ...	4 0 0
14.	1 only.	Spring balance flat type 25 lbs. each ...	2 8 0
15.	1 set.	Slotted weight 50 grms. Set of five complete with hanger, totalling 250 grms., brass lacquered. set ...	5 0 0
		Slotted weight each weighing 100 grms., set of five with hanger, totaling 500 grams. set ...	9 8 0
16.	1 only.	Dynamometer—Rintoul's type with springs, each ...	7 12 0
17.	½ lb.	Bees wax. lb. ...	4 8 0
18.	1 in each.	Wire of different metals of copper, brass and iron 6″ long. each ...	0 6 0
19.	1 only.	File triangular for cutting glass tube, with handle. each ...	1 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs, A. P.
20.	1 book.	Dutch metal leaf. each ...	0 8 0
21.	1 set.	Set of six metal cubes of different metals — 1" side in box. set ...	14 0 0
22.	2 only.	Flasks flat bottomed, heat resistance glass — Capacity 250 cc. each ...	1 0 0
23.	2 only.	I. R. corks to suit above. each ...	0 3 0
24.	2 only.	Mohr's clip, with strong tension N. P. each ...	0 6 0
25.	1 only.	Apparatus to show that liquids maintain the same level 4 limbed on stand. each ...	2 12 0
26.	1 only.	Spirit level :	
		6" long. each ...	1 6 0
		8" long. each ...	2 0 0
27.	6 only.	Glass tubes of different diameters of 3 feet long. each ...	0 6 0
28.	1 only.	Model of the Brahma press, glass with valve visible, etc. each ...	3 0 0
29.	1 only.	Tall cylinder or hydrometer jar with spout, 15" × 3½. each ...	6 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
30.	1 only.	Glass cylinder open at both ends. each ...	1 8 0
31.	1 only.	Brass plate to cover the glass cylinder with a hook in the middle. each ...	0 12 0
32.	1 only.	Liquid pressure apparatus or spouting cylinder made of tin—enamelled. each ...	2 12 0
33.	1 only.	Apparatus to show that the pressure is equal in all directions. each ...	2 0 0
34.	1 only.	Barometer tube, closed at one end—1 meter long. each ...	2 0 0
35.	2 only.	Porcelain cups 3" dia, with spout—Indian. each ...	2 0 0
		Mercury cistern to hold 5 lbs. of mercury — Porcelain—Superior quality each ...	5 8 0
36.	2 only.	Glass basin, with spout :	
		3" dia. each ...	1 8 0
		4" dia. each ...	2 4 0
37.	3 lbs.	Mercury metal lb. ...	8 0 0
38.	2 only.	Zinc tray or sand bath made of galvanised iron—6" diameter each ...	0 8 0

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S. No:	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
39.	4 sets.	Retort stand, cast iron enamelled base 6″×4″×18″ with clamp lined with cork with double open boss-head, etc. set ...	6 8 0
		—Do—size of the base 8″×5″×24″ complete with clamp and bosshead, etc. set ...	8 8 0
40.	2 only.	Burette stand wooden for single, with cork lined jaws, made of teak wood. each ...	3 8 0
41.	1 only.	Test tube stand with 6 holes and 6 pegs—made of teak wood each ...	1 8 0
42.	1 only.	Burette, with stopcock, graduated — ordinary — 50×1/10th cc. each ...	3 4 0
		Do. best leak proof, with circular clear graduations—superior—50×1/10th. each ...	4 0 0
43.	1 only.	Ink filler. each ...	2 0 0
44.	1 only.	Air pump without stopcock, on wooden base, dia. of the plate 5″ size. each ...	25 0 0
		Do. with stopcock—8″ size. each ...	48 0 0
45.	1 set.	Magdeberg hemispheres with stopcock. each ...	13 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
46.	1 only.	Bell jar with ground stoppered—size 8″×5″. each ...	6 0 0
		Bell jar with knob—size 8″×5″. each ...	4 8 0
47.	1 only.	Glass syringe—2 oz. capacity each ...	0 12 0
48.	1 only.	Cycle pump. each ...	5 0 0
49.	1 only.	Calipers—ordinary. each ...	1 8 0
50.	1 only.	Slide or vernier caliper made of steel polished with depth gauge 5″ long. each ...	7 0 0
51.	1 set.	Blocks of wood set of six used as supports for adjusting the height 6″ rectangular or cylindrical. set ...	4 8 0
52.	1 set.	Wooden cylinder, spheres cone and circular disc—1½″ size. each ...	1 0 0
53.	1 only.	Pipette, with centre bulb :	
		10 cc. each ...	0 10 0
		20 cc. each ...	1 0 0
54.	2 only.	Class funnels of various size:	
		Size 5 cm. each ...	0 12 0
		Size 6 cm. each ...	0 14 0
		Size 7·5 cm. each ...	1 0 0
55.	2 only.	Glass stoppers. each ...	0 3 0
56.	1 only.	Common balance or hand scale with brass cups, with steel pointer. each ...	8 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P,
		Physical balance *solid beam, with steel knife edges,* on polished wooden base, with plumb, *load* 250 grms. and *sensibility* 4 mgrs. each ...	35 0 0
		Hydrostatic balance with third pan, etc. each ...	17 12 0
57.	1 set.	Iron weights from ¼ oz. to 1 lb. set ...	3 4 0
		Weight box from 1 grm. to 100 grms. with fractional weights in separate compartment, complete with forceps. N. P. set ...	10 12 0
58.	2 only.	Specific gravity bottle, with perforated solid stopper—capacity 25 cc. each ...	0 14 0
		Do. do. do. 50 cc. each ...	1 6 0
59.	2 only.	Wooden bridges for the above. each ...	0 8 0
60.	4 only.	Tripod stand, 5″ and height 7″ and enamelled. each ...	1 0 0
61.	4 only,	Wire gauge :	
		4×4″ each ...	0 4 0
		5×5″ each ...	0 5 0
		6×″6 each ...	0 6 0
62.	2 only.	Spirit lamps, with glass cover and *metal wick-holder*—capacity 4 oz. each ...	1 12 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		Do. *with Brass cover*—4 oz. each ...	2 0 0
63.	1 only.	Ball and ring Gravasand's pattern. each ...	2 0 0
64.	1 only.	Bar and gauge apparatus. each ...	2 4 0
65.	1 only.	Conduction apparatus half metal and half wood. each ...	1 8 0
66.	1 only.	Conductivity apparatus with copper cylinder closed at one end to which soldered three metal rods and index, etc. Edser's type. each ...	6 8 0
		Conductivity apparatus circular type, with four metal cups fixed to a wooden ring. each ...	2 4 0
67.	1 only.	Ventilation apparatus, with glass chimneys. each ...	6 0 0
68.	1 only.	Compound bar of iron and copper. each ...	2 4 0
69.	1 only.	Davy's safety lamp, with wire gauge, brass. each ...	4 12 0
70.	1 only.	Apparatus for convection of currents a glass rectangular tube. each ...	3 0 0
		Do. with glass chimney and T bit and enamelled. each ...	1 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
71.	2 only.	Thermometer tube, glass empty. each ...	1 0 0
72.	1 only.	Thermometer—Centigrade, 110×1 degree. each ...	5 0 0
73.	1 only.	Thermometer—Fahrenheit, 220×1 degree. each ...	6 0 0
74.	1 only.	Clinical thermometer. each ...	1 8 0
75.	1 only.	Convex lense—2″ dia. each ...	2 4 0
76	1 only.	Concave and Convex mirror 3″ dia. each ...	4 0 0
		Do. metal mounted fixed with boss-head and enamelled. each ...	6 0 0
77.	1 only.	Steam Engine model, with oscilating cylinder, complete with metal furnace, horizontal or vertical type. Superior finish each ...	25 0 0
		Model of Section of steam engine, all metal each ...	45 0 0
78.	1 only.	Thermos flask—medium size—1 pint. each ...	8 0 0
		2ND & 3RD YEAR CLASES.	
79.	8 only.	Mirror strips—6×1″ mounted. each ...	0 6 0
80.	6 only.	Drawing board — seasoned wood– 18″×12″. each ...	5 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
81.	2 Doz.	Drawing pins with circular head. doz. ...	1 0 0
82.	2 only.	Ground glass screen on wooden base 6″×4″. each.	1 0 0
83.	6 only.	Rectangular glass slab for refraction purposes—size 4″×3″×1″ nearly, each ...	6 8 0
84.	3 only.	Equilateral prism glass—2×2×2″ size. each ...	6 0 0
85.	4 only.	Concave mirror—3″ dia. each ...	4 0 0
		Concave mirror—2″ dia. each ...	2 14 0
86.	1 only.	Prismatic bottle. (If available). each ...	10 8 0
87.	1 set.	Set of six lenses of equal diameter in box. set ...	15 0 0
88.	1 only.	Optical bench school pattern 1 metre long with following accessories: one opaque screen, four lense holders, one pin on stand, one ground glass screen and one wire gauge screen, with metre scale fixed. set ...	20 0 0
		Optical bench with wooden base one metre long with five metal slides, carrying the following accessories:	

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S. No:	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		Screen with cross wire, lense holder ground glass screen with opaque screen and prism table—Superior. each ...	48 0 0
89.	6 only.	Candle holder adjustable on stand—wooden.. each ...	3 14 0
90.	6 only.	Do. adjustable with cast iron base. each ...	5 14 0
91.	6 only.	Wire gauge or paper screen on wooden base. each ...	1 4 0
92.	1 only.	Reading glass or magnifier with hand 3" dia. with N.P. ring. each ...	9 0 0
93.	1 only.	Student's Microscope. Magnification 100× with rack and pinion fitted with plane silvered mirror, curved limb with pivot screw adjustment. Mechanically and optically an instrument of the highest quality with slides and forceps, etc., in T. W. cabinet—English. each ...	75 0 0
94.	1 only.	Plastic Telescope. 4 section— each ...	18 0 0
95.	1 only.	Newton's colour disc, on wooden base, with metal driving wheel. each ...	9 0 0

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S. No	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
96.	1 only.	Magic Lantern : Gives 8' clear picture at 10 feet from screen crystaline enamel body. Sight hole and fibre knob well ventilated base and cowl back door hinged at top condenser plano convex lens 4" dia, complete with wooden case. each ...	190 0 0
		Spare focus outfit with bulb. each ...	55 0 0
		Klimax Acetyline generator with 4 jet burners. each ...	65 0 0
		Spare slide carrier, etc., for above. each ...	5 0 0
97.	1 only.	Pin hole camera box form—Wooden. each ...	3 8 0
98.	10 only.	Coloured glass plates 4"×4" sq. each ...	0 12 0
		SOUND	
99.	1 set.	Tuning fork, with frequency marked N.P. with resonance box, complete with hammer, etc. set ...	5 8 0
100.	1 only.	Sonometer base form one meter long fixed with meter scale, complete with wires, etc. each ...	13 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
101.	1 only.	Siren disc, containing a metal disc. 5" having four rows of holes with whirling table complete with blowing pipe. each ...	50 0 0
102.	1 only.	Hand bellows. each ...	7 0 0
		MAGNETISM	
103.	6 pairs.	Bar magnets with keepers :	
		4" in box. pair ...	2 4 0
		6" in box. pair ...	3 8 0
104.	1 only.	Horse shoe magnet with keepers. 3" size. each ...	2 0 0
105.	2 only.	Electro magnet with wire windings. each ...	3 12 0
106.	4 only.	Compass needle, with brass centre complete with stand, etc. 3". each ...	I 10 0
107.	1 only.	Load stone. each ...	0 12 0
108.	1 only.	Mariner's compass in gimbal N.P. on pillar stand for demonstration purpose—*with brass bowl. N.P.* each...	10 12 0
		Do. *with bakelite cup* on stand in gimbal arrangements. each ...	9 8 0
109.	4 only.	Soft iron rod—6" long. each ...	0 4 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
110.	½ lb.	Iron filings. lb. ...	1 0 0
111.	1 doz.	Knitting needles. each ...	0 8 0
112.	4 only.	Clock spring—6" long. each ...	0 4 0
		ELECTRICITY	
113.	4 only.	Voltaic cell or simple cell, with copper and zinc plates, with terminals fixed to a wooden strip. each ...	3 8 0
114.	6 only.	Lechlanche cell, with charged porous pot, zinc rod, complete with glass outer vessel—English. set ...	9 0 0
115.	6 only.	Zinc rods, with wires attached. (Spare) each ...	1 8 0
116.	1 only.	Dry cell with terminal fixed. each ...	4 12 0
117.	1 only.	Galvanometer Tangent W. G. Pye's type, with magnetometer, removable when not required, etc. each ...	50 0 0
118.	1 only.	Galvanometer simple with glass shade. each ...	10 8 0
119.	6 only.	Plug key one way on Wooden base. each ...	3 12 0
120.	1 only.	Resistance-coils—2 ohms. each ...	8 8 0
121.	1 only.	Hoffman's voltameter with platinum electrodes, complete with stand. set ...	30 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		Do. without stand, etc. each ...	29 0 0
122.	4 sets.	Daniel cell, with porous pot, zinc rod, with terminals, complete with copper outer vessel, etc. each ...	8 8 0
123.	3 only.	Electric bell with N. P. gong—Eng. each ...	7 0 0
124.	1 only.	Electric lamp on stand, with terminals. each ...	5 8 0
125.	2 doz.	Binding screws of various sizes. doz. ...	9 0 0
126.	6 only.	Rectangular glass jars for cells—size 6″ × 4″ × 2½″. each ...	5 8 0
127.	1 only.	Commutator Pohl's type with mercury cups, complete with terminals. each...	8 12 0
128.	6 only.	Copper plates for electroplating experiment or voltaic cell. each ...	1 8 0
129.	2 lbs.	Insulated cotton covered wire—D.C.C. lb. ...	7 12 0
130.	1 only.	Electric Motor open type—Very useful for demonstration purposes—Indian. each	13 8 0
		Do. do. Sup. each ...	16 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
131.	1 only.	Electric dynamo, with bulb holder complete with bulb—Indian. each ...	15 8 0
		Electric dynamo, on wooden base, with metal driving wheel, for demonstration purposes complete with bulb—Indian. each ...	25 0 0
132.	6 only.	Spare porous pots empty. each ...	1 0 0
133.	4 only.	Copper calorimeter spun in one piece 3″×2″ with outer tin vessel fixed with thermometer-holder complete with stirrer, etc. set ...	3 8 0
		HEAT	
134.	4 only.	Steam heater made of copper Sinclair's pattern machine polished. each ...	16 0 0
135.	3 only.	Steam boiler made of galvanised iron without water gauge I litre capacity. each ...	4 8 0
		Do. made of copper I litre capacity. each ...	8 8 0
		Do copper with gauge, etc. 1 litre. each ...	9 12 0
136.	3 only.	Steam trap all glass. each ...	2 6 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs, A. P.
137.	4 only.	Tripod stand, iron enamelled—cheap. each ...	1 0 0
138.	4 only.	Spirit lamps, with glass cover and metal wick-holder 4 oz. capacity. each ...	1 12 0
		Do. with Brass collar. 4 oz. each ...	2 0 0
139.	8 only.	Centigrade thermometer, etched on stem. 110×1 degree—Imported—Eng. each ...	5 0 0
140.	1 only.	Wall thermometer. C. & F. combined. each ...	4 0 0
141.	1 lb.	Copper nails. lb. ...	5 8 0
142.	1 only.	Six's Maximum and Minimum thermometer mounted on metal scale with magnet—Eng. each ...	18 0 0
143.	6 only.	Wire gauge :—	
		4×4″ each ...	0 4 0
		5×5″ each ...	0 5 0
		6×6″ each ...	0 6 0

MECHANICS HYDROSTATICS AND STATISTICS

144.	1 doz.	Meter scale marked in inches, cms. and mms. on the other side 1 meter. doz. ...	19 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
145.	6 only.	Calipers simple—for in or outside measurements. each ...	1 8 0
146.	6 only.	Foot rule—12″ long marked in inches, cms. and mms., etc. each ...	0 2 0
147.	1 doz.	Block of wood—4×2×1″ doz. ...	4 8 0
148.	6 only.	Wooden cylinders of different sizes. each ...	0 3 0
149.	6 only.	Wooden spheres of different sizes. each ...	0 8 0
150.	6 only.	Wooden discs—3″ dia. nearly. each ...	0 3 0
151.	1 pair.	Set squares for black board use. pair ...	5 0 0
152.	1 only.	Compass for black board use. each ...	3 8 0
153.	6 only.	Caliper for in and outside measurement. each ...	2 8 0
154.	2 only.	Opisometer—simple form. each ...	3 8 0
155.	1 only.	Micrometer screw gauge, best steel polished :	
		10×1/100 mm. each ...	7 8 0
		15×1/100 mm. each ...	10 8 0
156.	4 only.	Socket and cylinder, brass big size to prove principle of Archemedies experiment. each ...	4 8 0
		Do. small size. each ...	2 6 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
157.	4 only.	Spring balance flat type 250 Grs. each ...	2 4 0
158.	4 only.	Physical balance open beam, on polished wooden base, with plumb bob, complete with levelling screws—Load 250 Grs. sensibility 3 mgrs. with glass case. Set ...	75 0 0
159.	1 only.	Hydrostatic balance, with steel pointer on wooden base, complete with third pan — Load 250 grms., sensibility 5 mgrs. each ...	22 0 0
160.	5 only.	Weight box from 1 grm. to 100 grms. with fractional weights in separate compartment complete with forceps. N. P. set ...	10 12 0
		Do. upto 200 grms. N. P. each ...	13 12 0
161.	4 only.	Wooden bridges for Hydrostatic balance. each ...	0 8 0
162.	3 only.	Slide caliper or vernier caliper best steel polished, 5" long or 12·5 cm. each ...	7 8 0
163.	2 only.	Slotted weights, 250 grms., each weighig 50 grms., set of five, complete with hanger brass lacquered. each ...	5 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
164.	1 set.	Spare weights :	
		100 grs. N.P. set ...	2 0 0
		200 grs. N.P. set ...	3 12 0
		500 grs. N.P. set ...	6 0 0
165.	4 only.	Plumb bob of metal with hook. each ...	1 8 0
166.	3 only.	Pendulum bobs of metal copper, iro, wood, aluminium, brass, etc. each ...	1 0 0
167.	1 only.	Stop clock, with start and stop actions with centre second. W.G. Pye's type. each ...	55 0 0
168.	1 only.	Metronomes. each ...	75 0 0
169.	4 only.	Hare's apparatus, glass tube, graduated on wooden stand, with special lifting arrangements complete with pinchcock. set ...	10 8 0
170.	8 only.	Retort stand, with cast iron enamelled base—6×4×18" with retort clamps with cork lined jaw with double open bosshead. each ...	6 8 0
171.	2 only.	Hydrometer jar with spout. glass. 15×3" each ...	6 8 0
172.	2 only.	Hydrometer Beaume's for light or heavy liquids. each ...	2 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		Nicholson's hydrometer brass N. P. each ...	4 4 0
173.	1 only.	Lactometer with trial jar. each ...	1 4 0
174.	1 only.	Model of common pump mounted on wooden stand, with metal reservoir and enamelled. each ...	5 12 0
175.	1 only.	Forcepump model, glass mounted on wooden stand, with reservoir, etc. each ...	5 12 0
176.	4 only.	T tube glass. each ...	0 8 0
177.	12 yds.	1.R tubings assorted sizes for connection purposes. yard ...	0 14 0
178.	6 only.	Mohr's clip, with strong tension. N.P. each ...	0 6 0
179.	4 only.	Specific gravity bottle—25 cc. each ...	0 14 0
		Do. 50 cc. each ...	1 6 0
180.	4 lbs.	Lead shots of uniform size. lb. ...	4 0 0
181.	3 only.	Measuring cylinder graduated—with spout 250 cc. each ...	3 8 0
182.	3 only.	Overflow jar, glass with spout. each ...	2 8 0
		Do. made of metal enamelled	0 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
183.	1 doz.	Beakers with lip, heat resistance glass—Capacity :	
		150 cc. doz ...	10 8 0
		250 cc. doz ...	12 0 0
184.	6 only.	Metal pulleys single—with hooks. each ...	1 8 0
185.	4 only.	Inclined plane, with two wooden boards hinged together, with glass pan, brass roller, frictionless pulley, complete with scale pan, brass roller, etc. each ...	15 0 0
186.	4 only.	Spare roller for the above brass, each ...	3 14 0
187.	4 only.	Thin lamina of different sizes made of metal and enamelled. each ...	0 6 0
		MISCELLANEOUS	
188.	1 only.	Enamel Wash Basin. each ...	5 0 0
189.	6 doz.	Assorted bark corks upto $1\frac{1}{4}$". gross ...	6 0 0
190.	1 only.	Pneumatic trough glass circular :	
		8"×4" each ...	6 4 0
		10"×5" each ...	8 14 0
		12"×5" each ...	11 8 0
191.	1 only.	Rising table on wooden base—adjustable. each ...	4 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		CHEMISTRY	
192.	2 only.	Graduated Measuring cylinder—250 cc. cap. each ...	3 8 0
193.	2 only.	Do. 100 cc. cap. each ...	2 0 0
194.	1 only.	Do. 10 cc. cap. each ...	1 8 0
195.	1 only.	Measuring flasks stoppered 250 cc cap. each ...	3 12 0
196.	3 only.	Burette with stop cock graduated 25×/10 cc. each ...	2 8 0
197.	2 only.	Do. 50×1/10 cc. each ...	4 0 0
198.	2 only.	Graduated pipette 10 cc. capacity. each ...	0 10 0
199.	4 only.	Graduated pipette 25 cc. capacity. each ...	1 12 0
200.	1 only.	Graduated pipette 5 cc. capacity. each ...	1 4 0
201.	5 only.	Mortar and Pestle—stoneware glazed outside and unglazed inside. 4″ dia. each ...	4 8 0
202.	1 only.	Evaporating basin—15 cm. dia.—English—225 cc. cap. each ...	7 0 0
203.	8 only.	China dishes—English—3″ dia. or 42 cc. capacity. each ...	2 14 0
		Do. Indian. each ...	2 4 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
204.	1 only.	Porcelain boat—English. each ...	3 8 0
205.	6 only.	Porcelain crucible with lids 15 cc.—Indian. each ...	3 0 0
206.	1 only.	Porcelain spoon with spatula end. each ...	2 8 0
207.	1 only.	Porcelain tiles 6″×6″ each ...	2 0 0
208.	1 only.	Pneumatic trough glass rectangular 10″×8″×4″ each ...	11 8 0
209.	8 only.	Pneumatic trough circular made of G.I sheet 10″×4″ each ...	3 8 0
210.	6 only.	Beehieve shelves—Porcelain. each ...	1 8 0
211.	1 only.	Crystallising Dish — glass 12·5 cm. dia. each ...	3 4 0
212.	6 only.	Woulff's bottle with 2 necks—glass 250 cc. capacity each ...	5 4 0
213.	1 only.	Kipp's apparatus with thistle funnel and stopcock, etc. 250 cc. cap. each ...	40 0 0
214.	1 only.	Calcium chloride tube with one bulb. each ...	0 12 0
215.	1 only.	Calcium chloride 'U' Tube 5″ long. each ...	1 4 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
216.	1 only.	Calcium chloride—tower—glass. each ...	9 8 0
217.	1 only.	Dessicators with knob. 5" dia. with perforated zinc disc, stout and thick glass. each ...	10 12 0
218.	1 only.	Weighing bottle with stopper—well ground—50×25 mm each ...	1 14 0
219.	3 doz.	Watch glasses with ground edges 1 doz. in each :	
		4 cm. doz. ...	2 4 0
		5 to 6 cm. doz. ...	3 0 0
		8 cm. doz. ...	4 8 0
220.	2 only.	Bell jar with stopper—well ground. each ...	6 0 0
221.	8 only.	Funnels glass (2 big and 6 small) :	
		6" dia. each ...	3 0 0
		4" dia. each ...	1 8 0
222.	1 doz.	Thistle funnel—12" long. Doz. ...	5 4 0
223.	1 only.	Separating funnel glass with stopper and stop cock. 100 c. c. each ...	5 0 0
224.	1 only.	Aspirator with tubular at bottom 1 litre capacity. each ...	9 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
225.	6 only.	Retort stoppered :	
		250 cc. each ...	10 0 0
		500 cc. each ...	15 0 0
226	½ lb.	Glass tubing assorted sizes. Lb. ...	2 4 0
227.	½ lb.	Glass roddings assorted sizes. lb. ...	2 4 0
228.	1 only.	Circular trough made of tin with compartments to keep I. R. tubing with cover enamelled. 1 2″ dia. each ...	8 8 0
229.	1 only.	Copper water bath with concentric rings with handle 5″ dia. each ...	7 0 0
230.	16 only.	Re-agent bottles with flat stopper N. M.:	
		4 oz. each ...	0 14 0
		8 oz. each ...	1 6 0
231.	1 only.	Nickel Basin—3″ dia. each ...	4 8 0
232.	1 only.	Nichel crucible with lid 15 cc. cap. each ...	5 0 0
233.	1 only.	Lead evaporating basin 3″ dia. each ...	3 12 0
234.	1 only.	Platinum wire fused glass rod. each ...	2 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
235.	2 only.	Balance precision, open beam grauduated with agate knife edges and palnes—load 250 gms. and sensitivity 2 mgms. on wooden board with levelling screws in teakwood glass case with lifting arrangement—complete set. set ...	85 0 0
236.	3 only.	Weight box from 1 gm. to 200 gms. with milligram weights in separate compartment with forceps. each ...	13 12 0
237.	6 sets.	Miligram weights from 1 mgm. to 500 mgms. each ...	0 5 0
238.	1 only.	Stoneware jug. each ...	5 0 0
		Do. glass. each ...	7 0 0
239.	8 only.	Spirit Lamp with glass cover and metal wick-holder. each ...	1 12 0
		Do. with brass cover. each ...	2 12 0
240.	5 only.	Mouth blow pipes brass N.P 6" long. each ...	0 12 0
241.	1 only.	Hand bellows. each ...	7 0 0
242.	1 only.	Test tube brushes. each ...	0 3 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
243.	1 only.	Narrow tube brushes. each ...	0 12 0.
244.	1 only:	Cork borer—set of three N.P. with handle. each ...	3 0 0
245.	1 only.	Cork presser flat type. each ...	3 0 0
		Do. wheel pattern. each ...	5 4 0
246.	1 only.	Glass cutting knife or Diamond cutter. each ...	16 8 0
247.	1 doz.	Retort stand cast iron enamelled 6×4×18" with clamp fitted with double open bosshead complete with two rings. each ...	9 12 0
248.	6 only.	Filter stand for single funnel, made of teak wood. each ...	3 4 0
249.	2 only.	Rising table on wooden stand adjustable. each ...	4 8 0
250.	1 only,	Do. Metal on iron stand. each ...	6 8 0
251.	1 only.	Pipette stand pen rack pattern. each ...	5 8 0
252.	10 only.	Test tube stand 6 holes and 6 pegs. each ...	1 0 0
253.	1 only.	Draining rack for flasks. each ...	10 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
254.	1 only.	Draining rack for test tubes each ...	7 8 0
255.	1 doz.	Iron tripod stand or triangular or circular type enamelled. doz. ...	12 0 0
256.	6 only.	Sand bath made of galvanised—iron—6″. each ...	0 8 0
257.	2 only.	Wire gauge with asbestos centred—6×6″ each ...	0 6 0
258.	1 doz.	Do. ordinary :	
		4×4″ each ...	0 4 0
		5×5″ each ...	0 5 0
		6×6″ each ...	0 6 0
259.	8 only.	Crucible tongs brass 6″ with bow. each ...	1 8 0
260.	6 only.	Test tube holder with sliding collar. each ...	0 14 0
261.	6 only.	Deflagrating spoon with brass disc. and spoon. each ...	0 5 0
		Ditto cheap with G. I. Disc. each ...	0 4 0
262.	6 only.	Do. without spoon. each ...	0 3 0
263.	3 only.	Horn spatula spoon. each ...	0 12 0
264.	6 only.	Horn spatula. each ...	0 10 0
265.	10 only.	Pipe clay triangles. each ...	0 5 0
266.	1 only.	Mortar and pestle iron.	8 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
267.	3 only.	Wooden tray 12″ long 8″ breadth. each ...	3 8 0
268.	4 only.	Asbestos mill board 6×6″. each ...	0 6 0
		GLASSWARES.	
269.	10 only.	Beaker with spout :	
		100 cc. each ...	0 12 0
		150 cc. each ...	0 14 0
270.	1 only.	Combustion tube with one bulb. each ...	1 8 0
271.	1 only.	Leibig condenser—all glass—12″ long. each ...	3 0 0
272.	6 doz.	Test tubes with rim 5×5/8″. gross ...	10 8 0
273.	2 only.	Test tube with side tube 6×¾″. each ...	0 14 0
274.	1 doz.	Test tube with rim—hard glass—6×5/8″. doz. ...	1 4 0
275.	2 only.	Flasks heat resistance glass flat or round bottomed 1000 cc. each ...	3 0 0
276.	6 only.	Flasks round bottomed :	
		250 cc. each ...	1 0 0
		500 cc. each ...	2 0 0
277.	1 doz.	Do. flat bottomed :	
		250 cc. each ...	1 0 0
		500 cc. each ...	1 12 0

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S. No.	Quantity Reqd.	Particulars		Rate per unit Rs. A. P.
278.	6 doz.	Gas collecting jars with ground flange :		
		Size 6×2″	each ...	1 10 0
		Size 8×2″	each ...	1 14 0
		Size 10×2″	each ...	2 4 0
279.	18 only.	Conical flask :		
		250 cc.	doz.	12 0 0
		500 cc.	doz. ...	21 0 0
		150 cc.	doz. ...	10 8 0
280.	2 doz.	Ground glass discs for the above.	doz. ...	3 0 0
281.	1 only.	Pneumatic trough—stone-ware :		
		Size 12″ dia.	each ...	12 0 0
		Size 10″ dia.	each ...	10 8 0
282.	2 only.	Do. glass circular :		
		Size 8″ dia.	each ...	6 4 0
		Size 10″ dia.	each ...	8 14 0
		Size 12″ dia.	each ...	11 8 0
		BIOLOGY.		
283.	1 set.	A. L. Physiology charts, set of eight each chart separately mounted on cloth with roller.	set ...	48 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P
284.	1 only.	Human skeleton articulated, fully bleached on iron stand. set ...	100 0 0
285.	1 only.	Torso model with all parts divisible on wooden base, medium size. each ...	40 0 0
		Torso model, with all parts divisible painted in natural clours with instructions, etc. Big size—Superior. each ...	80 0 0
286.	1 only.	Larynx model divisible. each ...	8 0 0
287.	1 only.	Model of the brain divisible into 4 parts with instructions. each ...	20 0 0
		Do. into 2 parts. each ...	15 0 0
288.	1 only.	Model of the heart, dissectable 10 times magnified on wooden base, with instructions, etc. each ...	15 0 0
289.	1 only.	Model of the eye, dissectable all parts on stand. each ...	18 0 0
290.	1 only.	Model of the skin on board. each ...	16 0 0
291.	1 only.	Model of the ear, divisible on wooden base. each ...	25 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
		APPARATUS	
292.	1 only.	Dissecting instruments box, containing 1 scalpel, 2 dissecting needles, 2 forceps and a pair of scissors, etc. complete with razor, etc. each ...	13 8 0
293.	1 only.	Spare scalpel—all metal. each ...	1 12 0
294.	1 only.	Dissecting board—dealwood. each ...	3 12 0
295.	1 only.	Germinating box with glass front. each ...	7 12 0
296.	1 only.	Vascula box made of metal—enamelled complete with leather strap. each ...	8 0 0
297.	I only.	Germinating dish. each ...	4 12 0
298.	1 only.	Razor strap. each ...	3 12 0
299.	6 only.	Dissecting needle, with wooden, handle. each ...	0 6 0
300.	2 only.	Dissecting tray rectangular—20×14" each ...	7 8 0
301.	1 only.	Dissecting microscope: with horse-shoe foot square stage with round opening for taking up slides. The focussing is effected by rack and pinion adjustment, etc., with 10× magnification with box. each ...	80 0 0

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CHEMICALS

302.	2 lbs.	Acid Nitric—Pure	lb ...	4	8 0
		Do. Coml. in G. S. bottle.	lb. ...	1	14 0
303.	2 lbs.	Acid Hydrochloric—Pure.	lb. ...	4	0 0
		Do. Coml. in G. S. bottle.	lb. ...	1	4 0
304.	2 lbs.	Acid sulphuric—Pure.	lb. ...	3	12 0
		Do. Coml. in G. S. bottle.	lb. ...	1	4 0
305.	4 oz.	Acid oxalic.	oz. ...	0	6 0
306.	2 oz.	Acid acetic glacial.	,, ...	0	4 0
307.	1 oz.	Acid phosphoric.	oz ...	0	12 0
308.	1 oz.	Acid carbolic	,, ...	0	8 0
309.	8 oz.	Acid boric.	lb ...	2	0 0
310.	1 oz.	Acid citric.	oz ...	0	6 0
311.	1 oz.	Acid tartaric.	,, ...	0	6 0
312.	2 oz.	Aluminium turnings or powder.	oz ...	0	12 0
313.	1 oz.	Aluminium metal foil	,, ...	0	12 0
314.	4 oz.	Aluminium sulphate.	,, ...	0	8 0
315.	1 oz.	Aluminium chloride	,, ...	0	12 0
316.	1 lb.	Ammonium chloride.	lb. ...	2	0 0
317.	1 lb.	Ammonium hydroxide.	,, ...	2	0 0
318.	1 lb.	Ammonium sulphate	,, ...	4	0 0
319.	8 oz.	Ammonium nitrate.	,, ...	6	8 0
320.	2 oz.	Barium chloride.	oz ...	0	5 0
321.	1 oz.	Borax.	,, ...	0	5 0

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S. No.	Quantity Reqd.	Particulars		Rate per unit Rs. A. P.
322.	1 lb.	Bleaching powder.	lb. ...	1 8 0
323.	8 oz.	Calcium chloride fused.	oz. ...	0 6 0
324.	2 lbs.	Marble chips.	lbs. ...	0 5 0
325.	2 oz.	Calcium carbonate precipitated	oz. ...	0 4 0
326.	4 oz.	Carbon di sulphide.	lb. ...	8 0 0
327.	1 oz.	Animal charcoal.	oz. ...	0 6 0
328.	1 lb.	Copper sulphate—pure.	lb. ...	4 0 0
		Do. commercial.	,. ...	1 4 0
329.	1 lb.	Copper nitrate.	,, ...	12 0 0
330.	8 oz.	Copper oxide.	,, ...	12 0 0
331.	8 oz.	Copper turnings.	,, ...	4 8 0
332.	1 oz.	Emery powder.	oz. ...	0 8 0
333.	1 oz	Glucose	,, ...	0 6 0
334.	1 oz.	Idoine resublimed.	,, ...	1 4 0
335.	1 oz.	Methyl orange.	,, ...	6 0 0
336.	8 oz.	Iron filings.	lb. ...	2 0 0
337.	8 oz.	Ferrous sulphate	,, ...	2 4 0
338.	1 oz.	Graphite.	oz. ...	0 4 0
339.	1 oz.	Lampblack.	,, ...	0 4 0
340.	1 oz.	Lead peroxide.	,, ...	1 2 0
341.	4 oz.	Lead nitrate.	,, ...	0 12 0
342.	4 oz.	Lead oxide (lithrage)	,, —	0 4 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
343.	8 oz.	Lead acetate. „ ...	0 6 0
344.	4 oz.	Magnesium metal ribbon. „ ...	4 0 0
345.	1 oz.	Magnesium metel powder. „ ...	2 0 0
346.	1 lb.	Magnesium sulphate. „ ...	1 0 0
347.	1 lb.	Magnesium carbonate. „ ...	2 4 0
348.	1 lb.	Manganese dioxide. „ ...	1 0 0
349.	1 lb.	Mercury metal „ ...	10 0 0
350.	4 oz.	Mercury oxide red. oz. ...	2 0 0
351.	1 oz.	Mercury chloride (ic) „ ...	1 8 0
352.	1 oz.	Mercury chloride (ous). „ ...	1 8 0
353.	8 oz.	Paraffin wax. lb. ...	1 4 0
354.	4 oz.	Phenolphthalene oz. ...	1 4 0
355.	8 oz.	Potassium dichromate lb. ...	4 0 0
356.	2 oz.	Phosphorous red. oz. ...	2 8 0
357.	2 oz.	Phosphorous yellow. „ ...	2 8 0
358.	8 oz.	Potassium chloride lb ...	4 0 0
359.	8 oz.	Potassium nitrate. „ ...	3 0 0
360.	8 oz.	Potassium permanganate. „ ...	4 8 0
361.	4 oz.	Potassium hydroxide sticks. „ ...	9 0 0
362.	2 oz.	Silver nitrate crystals oz. ...	6 0 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P
363.	1 oz.	Sodium metal. oz. ...	2 8 0
364.	1 lb.	Sodium bicarbonate. lb. ...	1 4 0
365.	1 lb.	Sodium carbonate— Anydrhous. ,, ...	1 8 0
		Do. Commercial. ,, ...	0 6 0
366.	8 oz.	Sodium chloride— Pure. lb. ...	2 8 0
		Do. (table salt). lb. ...	0 8 0
367.	2 oz.	Sodium hydroxide sticks. oz ...	0 6 0
368.	4 oz.	Sodium nitrate. lb. ...	4 0 0
369.	8 oz.	Sodium sulphate. lb. ...	2 4 0
370.	8 oz.	Sulphur flower. lb. ...	4 8 0
371.	1 oz.	Tin metal—granular. oz. ...	1 2 0
372.	4 oz.	Zinc metal sticks. lb. ...	8 0 0
373.	1 lb.	Zinc metal—granular. ,, ...	2 8 0
374.	2 doz.	Litmus paper books blue and red. (1 doz. in each— English) doz. ...	4 8 0
		Do. Indian. each ...	0 1 0
375.	3 only.	Filter paper cut in circles 9 cm. dia. Whatman's each Pkt. ...	1 8 0

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S. No.	Quantity Reqd.	Particulars	Rate per unit Rs. A. P.
376.	8 oz.	Hydrogen peroxide. lb. ...	4 0 0
377.	4 oz.	Turpentine—Pure. lb. ...	2 8 0
378.	1 lb.	Zinc oxide. lb. ...	3 0 0
		MISCELLANEOUS	
380.	1 only.	Plant press, with wind nut, etc. each ...	9 14 0
381.	6 only.	Cover slips. each ...	0 8 0
382.	1 only.	A jelly fish in suitable glass jar. each ...	12 0 0
383.	1 only.	A land snake in suitable glass jar. each ...	12 0 0
384.	1 only.	A pond snake in suitable glass jar. each ...	12 0 0

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Funding: Tattva Heritage Foundation,Kolkata. Digitization: eGangotri.

TERMS OF SALE.

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1. All prices in this list are strictly nett and without engagement and subject to prior sale.

2. Payments are strictly cash per V.P.P. or through scheduled Bank. Governmet and quasi Government insitutions will be allowed credit.

3. Box, packing, forwarding, cooly etc., will be charged extra; Railway frieght to the nearest Railway Station will however be paid by us.

4. Sales tax at Government rates will be charged extra.

5. Since special care is taken in packing, no allowance will be made for damage to the goods in transit. Insurance against damage will be at the cost of the customers and will be done only under special instructions from them.

6. Any apparatus that is not in conformity with the specifications given or to the satisfaction of the constituents will be replaced at the cost of the firm. Claims in regard to any consignment will be accepted if made within 7 days from the date of receipt of goods.

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